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ROCK PRODUCTS

# CONCRETE PRODUCTS

and Cement Products

JUNE  
1945

A Removing 40-in. pipe, Eastman, Pa., March 1945. Story coming in July issue



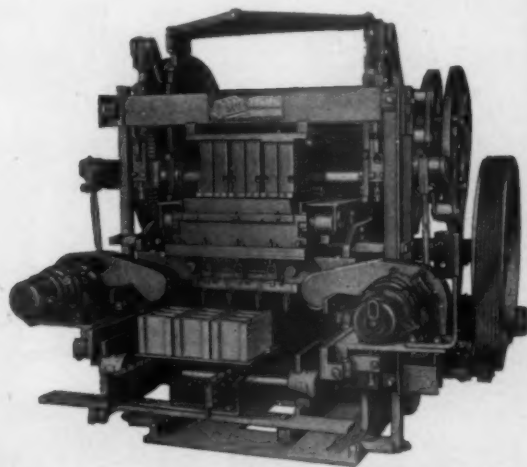
# Concrete Masonry Units for GREATER UTILITY



Besser Vibrapac Better Concrete Masonry Units in the hands of skilled architects and builders have in effect become a new building material.

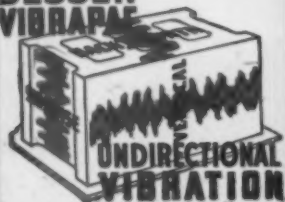


The stress of wartime building construction has emphasized to a greater degree than ever the flexibility and utility of concrete masonry units as an all-purpose building material. In the future the great majority of buildings of all classes will be constructed for convenience, comfort, low first cost, low maintenance, safety and beauty—with better concrete masonry units.



Besser Super Automatic Plain Pallet Vibrapac. Capacity 600 8" x 8" x 16" per hour made 3 at a time on one plain pallet. Smaller units made in larger multiples on the same pallets.

**BESSER  
VIBRAPAC**



## Important Patent Notice

Licensed under the Gellman basic vibration patents.

Undirectional vibration licensed under Flum patents.

The Vibrapac combines vibration with exclusive patented Besser Plain Pallet principle.

## BESSER MANUFACTURING CO.

206 Forty-Fifth St.

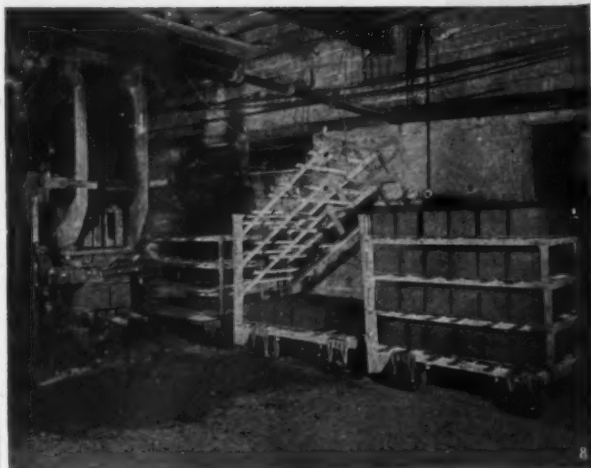
Alpena, Mich.

Complete Equipment for Concrete Products Plants

THE SAVING IN PALLET COST WILL PAY FOR  
A BESSER VIBRAPAC PLAIN PALLET STRIPPER

# For 35 Years...

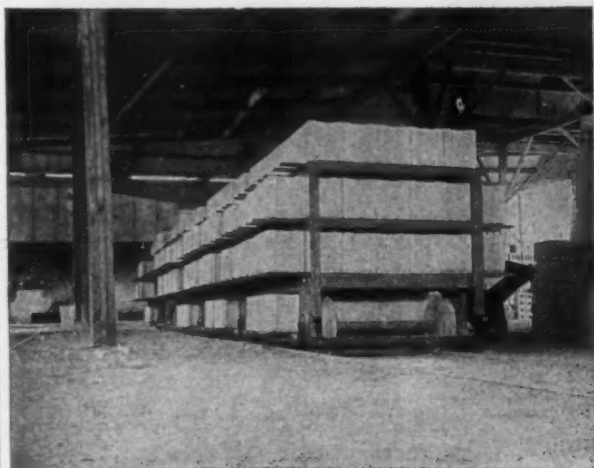
**THE LEADING MANUFACTURER  
of LIFT TRUCK RACKS  
and BLOCK CARS  
for the CONCRETE PRODUCTS INDUSTRY**



● Style 293 Hinged Deck Block Cars in service at the Edmonds Art Stone Company, Washington, D. C.



● Style 294 Hinged Deck Lift Truck Racks in block plant of Cleveland Builders Supply Co., Cleveland, Ohio.



● Style 198 Block Cars for high pressure steam curing at L. G. Randolph Concrete Products Co., Ann Arbor, Michigan.



● Style 2167 Lift Truck Racks with steel decks in the block plant of the Currier Lumber Co., Detroit, Michigan.

**ANY STYLE OR DESIGN LIFT TRUCK RACK  
OR CAR FOR YOUR PLANT**

## The Chase Foundry and Manufacturing Co.

COLUMBUS 7, OHIO

Write for our Catalog

ROCK PRODUCTS, June, 1945

123

# Why the J&C approach makes brick production *highly profitable*



Brick production has become a profitable venture among many products men because of the basic features of J&C Brick Machines. They manufacture perfect brick on a mass production basis, both simply and economically.

The perfect brick manufactured readily win the praise and acceptance of contractors and architects . . . as they already have done throughout the country. The manufacturing process is simple, requiring no pallets. In itself this speaks for the even-textured, sharp-cornered and perfectly-uniform product turned out. But of equal importance, the elimination of pallets saves in handling, maintaining and storing thousands of pallets and lowers first cost and upkeep cost considerably.

You should prepare now for the great post-war demand for brick by considering the brick machine that has already proved itself the outstanding one on the market today.

## THE HIGHSPEED PRODUCER OF PERFECT BRICK

- Up to 28,000 perfect brick in one eight-hour day—either solid or frog type.
- Sharp-edged, even-textured bricks of perfect uniformity.

- Up to 320 bricks from a sack of cement, with strengths as high as 3700 psi and absorption as low as 6%.
- No pallets required.

### Reduce Curing Periods From Days to Hours

J&C High Pressure Steam Kilns reduce curing periods for concrete products from days to hours. They help make a finished product that consistently has the high qualities demanded by the most exacting architects and construction engineers. Write for descriptive literature.





## Step Up Block Production and Yarding Facilities

**Southern Cast Stone Co., Knoxville, Tenn., also manufactures concrete pontoons, vats for electro-manganese plates, and burial vaults**

**By H. E. SWANSON**

**V**ERSATILITY and ingenuity are two principles which have made the Southern Cast Stone Co., Knoxville, Tenn., one of the leading masonry unit and cast stone producers in the country. Always willing to develop and manufacture new and unusual products, this company recently accepted a contract to make concrete pontoons. These pontoons will replace those made of more critical materials and will be installed on T.V.A. Lakes in the Tennessee River. Another departure into the field of new products is the manufacture of concrete vats for processing electro-manganese plates.

In addition to versatility in types of cast stone products, considerable time and thought has been expended on means of increasing masonry unit production. Recent changes, which have tripled block production, include the modernization of a block machine and the introduction of a hoist for yarding units.

Changing a single-unit-per-operation tamper machine into a three-unit-per-operation, automatic, vibrating machine, capable of produc-

ing 800 standard units per hour, has enabled this company to meet the huge demand for both cinder and



Stockpiling block with portable yard hoist

Superrock expanded slag units. The machine is equipped with a V-500 Syntrol vibrator on the mold box and a V-150 Syntrol vibrator on the press head. The feed box contains an agitator which speeds introduction of the mix into the mold box, thus assisting in the fast cycle of production.

Installation of a Warren yard hoist, a new type of yarding machinery, has substantially eased the manpower shortage, since it is now possible to yard about 7500 units per day with a single operator, a performance which otherwise would require from four to seven men. The hoist, shown in an accompanying illustration, enables the operator to remove block from racks and place them in storage as rapidly as they can be removed from the curing rooms. The other phases of block production have not been altered materially. With the exception of the yarding facilities and the



Millard R. Warren, general superintendent

modernization of the block machine, the process of block manufacture is that of a typical plant.

### Plant Operation

Both cinder and Superrock units are produced in about equal quantities. Cinders are trucked in from local sources and Superrock is received by rail. Cinders are either stockpiled or dumped directly into a pit feeding a chain bucket elevator. The elevator, 21-ft. centers, carries the cinders to an 18-in. belt conveyor, 3-ft. centers, equipped with a Dings magnetic pulley for the removal of tramp iron. The conveyor discharges to a 3- x 7½-ft. vibrating scalping screen with flange-lip, slotted openings, which taper from 5/16 to ¼ in. and are 1½ in. long. Oversize drops to an 18- x 30-in. roller-bearing Universal double-roll crusher, with ¼-in. spacing of rolls. Crushed cinders and throughs from the scalping screen drop to a pit which feeds a chain bucket elevator, 42-ft. centers, for transference to a 70-cu. yd. storage bin.

When Superrock is introduced to the plant, it is dumped directly into this pit, by-passing the crushing and screening operations. Superrock is loaded into skips from the railroad cars, manually, and the skips are hauled to the pit by a Brooks load lugger.

The storage bin, located above the mixing floor, serves both types of aggregates and therefore must be emptied of the one aggregate before the other can be introduced. Below the bin is a 50-cu. ft. batch box, which is filled through bottom discharge from the bin. A screen, hanging from the bottom of the bin and directly above the batch box, catches any foreign material which may have been picked up in transit. The screen is shaken manually at intervals to prevent clogging. Foreign material



Converted block machine which produces 800 standard masonry units per hour



A corner of the storeroom for forms used in the cast stone department

caught on the screen is removed by the mixer operator.

When the batch box is full, it is overturned to charge the 50-cu. ft. Besser mixer. The box is supported on an off center shaft which allows it to be overturned with a minimum of effort. When empty, it is righted and locked in place, ready for the next batch. A large wheel, attached by chain drive to a sprocket on the shaft, assists in the process of turning and righting the box.

Air-entraining cement is added to the aggregate in the mixer together with water, which is introduced by volume. The mix is deposited directly into the hopper of the block machine by gravity. This company feels that air-entraining cement has better workability, is more plastic, eliminates breakage in block handling, and gives greater strength to the finished unit.

Block are removed from the machine by a power off-bearer, which receives air from a 5-hp., 20 c.f.m. Par air compressor. Racks fabricated from steel pipe, having a capacity of 36 standard units, are transferred to curing rooms by three-wheeled, pneumatic-tired lift trucks.

### Curing System

Block are cured in seven rooms, with a total capacity of 7200 standard units. Curing is accomplished with both steam and dry heat, provided by a 50-hp. HRT Cole boiler, equipped with a Stokol stoker. Steam pressure is maintained at 125 p.s.i. and is sent through a 2-in. pipe from the boiler, reducing to 1¼-in. pipes, one to each room. The steam pipes run the length of the rooms and have ½-in. perforations spaced at 12-in. centers. Dry heat is radiated through 1¼-in. coil pipe, 500 ft. to each room. A temperature of about 200 deg. F. is maintained throughout the curing period. Condensation is returned to the boiler through 1½-in. pipe by a Deming condensation pump with a ½-hp. G. E. motor.

The curing rooms open at both

ends, one into the plant and the other into the storage yard. The doors at both ends are opened when

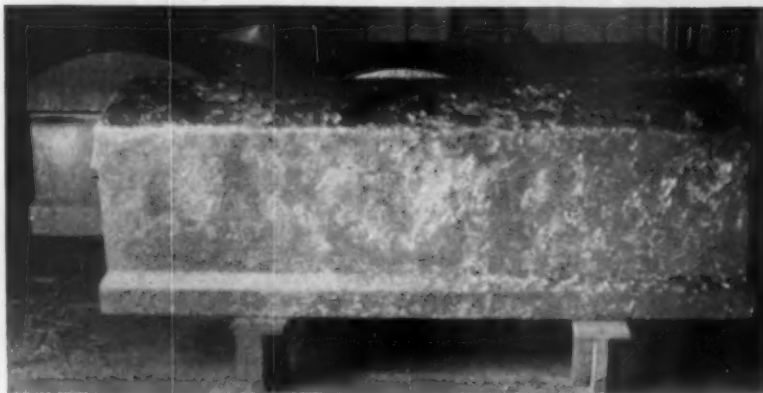


Lift truck and rack for handling block



Concrete pontoon ready to receive lid which will seal completed unit

block are to be yarded, which assists in clearing steam from the room more quickly. Racks are taken from



Wilbert concrete burial vault, one of the products made in the cast stone department

the rooms to the storage yard by a power lift truck, equipped with a Ready-Power gasoline-electric unit. Block are then removed from racks and stored by the Warren yard hoist. The hoist also assists in truck loading for delivery, which is handled on a contract basis with local truckers.

Cast stone production was inaugurated at this plant in 1926 and was the only type of manufacture until 1934, when the masonry unit plant was installed. At present, cast stone, while still an important item, is secondary to the production of lightweight block. Some of the more important concrete specialties produced are the Wilbert burial vault, an air-sealed concrete vault, pontoons, vats, lintels, and joists. The pontoons, mentioned earlier, are made of Haydite lightweight aggregate, and are 4- x 9-ft. and 3-ft. deep, with 4-in. walls and contain steel reinforcing. The lid is cast onto the base while the concrete is still in a plastic state. The manufacture of vats is the same as that of the pontoons, with the exception that the dimensions are 3- x 8-ft. and 4½-ft. deep, with 3½-in. walls. Both of these items are externally vibrated by a Branford vibrator. Lintels and joists are tamped with a Chicago pneumatic tamper.

Many of the forms for the cast stone products are fabricated at the plant. They consist of concrete forms as well as wooden and steel forms. Some of these are shown in an accompanying illustration.

C. L. Carmichael is president of the Southern Cast Stone Co., Inc.; J. W. Warren is vice-president; W. R. Cooper is secretary-treasurer; and Millard R. Warren, inventor of the yard hoist, is general superintendent.

### Buys Chicago Insulcrete

ILLINOIS BRICK Co., Chicago, Ill., has purchased land, buildings and equipment of Chicago Insulcrete Co., with plant at Franklin Park, Ill. Henry Buckholtz, who sold out his interest in the company, will continue as manager of the plant.

# What Effect Will V-E Day Have on Concrete Products?

## Leading manufacturers of concrete block, pipe and ready mix comment on the European war's end

**C. E. EHLE** of The Cleveland Builders Supply Co., producers of ready mixed concrete and concrete block, and president of the National Concrete Masonry Association, reports on V-E Day possibilities as follows:

"The marvelous conversion of industry to war production should prove beyond any questionable doubt its ability to return promptly to normal pursuits. The building industry merely needs the return of its manpower and essential maintenance and repairs to produce promptly on its pre-war volume; and an early release of restrictions and sane revision of taxes, plus a wisely laid-out program of city, county and state construction and improvements. Unlike after the last war, cities, counties, states and railroads now have surpluses of finances instead of deficits. Prompt allocation by all of real-needed construction, based on worth instead of waste, will, in my judgment, do its share in promptly aiding unemployment. Contract, by all means, instead of costly direct work."

### Ready Mix

**JULIUS J. WARNER** of Richter Concrete Corporation, Cincinnati, Ohio, advises, "We cannot visualize any immediate effect of consequence in our local field on account of the European victory. Present relaxation of restrictions are of very minor consequence, but should permit some increase in volume of repair and remodeling. Our biggest problem has been, and still is, manpower. We look for a gradual easing of this situation in the next few weeks. We anticipate a very slight increase in volume from month to month until the Public Works program is launched, and lumber is again readily obtainable in sufficient quantities. With the exception of those localities where the closing of war plants may put on a little pressure for an increase in construction, we expect the national situation will be about the same as ours here."

### Concrete Masonry

**BENJ. WILK**, Standard Building Products Co., Detroit, reports that "allocation of 5000 housing priorities to the Detroit area is increasing demand immediately for concrete block. Cessation of European war should

release manpower to our plant so we can increase production as needed. We look for steadily rising business activities. We are also planning to put bulk cement facilities in our plant, and make our steel racks more suitable for the use of an electrified hand-lift truck which is on order for use inside plant. We already have an electric lift truck for outside handling, and also hope to change curing methods to obtain high temperatures at normal pressures."

**E. P. WEESE** of The Carbon Concrete Brick Co., Youngstown, Penn., advises, "There seems to be some exaggerated expectations of building due to hysteria of V-E Day. Reconversion from total war effort to private building cannot progress to any great extent until W.M.C. relaxes enough to make this possible. The demand is here now due to higher income levels. This is especially true in farm construction. Relaxation of building restrictions merely gives manufacturers permission to manufacture and sell their merchandise, but it has not produced manpower to make these items. In our opinion, home building restrictions will hold for the balance of this year. By that time manpower will have relaxed enough to ease the tension in the concrete products industry."

**JOHN S. CHASE** of Chase Building Products, Fort Worth, Texas, reports no relaxation of restrictions in the Southwest. He states, however, "I am informed through good sources that W.P.B. will be the first to lend substantial help. There will be no effect on our business locally nor for the industry as a whole until labor can be secured and that relief should be felt in about six months. Architects in Fort Worth and Dallas areas now have enough jobs on file completed and ready for actual construction to last more than a year. It isn't merely a question of jobs, when we get labor, materials, other than lumber, will be sufficient for any type construction and the government has promised assistance on that item within the year."

**AUSTIN CRABBS** of Austin Crabbs, Inc., Davenport, Iowa, says, "We see no prospect as a result of victory in Europe for an early improvement in our industry's labor problem. A manpower shortage is holding our production here to less than a third of

potential sales. However, we hope to start construction soon on a complete new plant. Our industry should realize it must become 100 percent mechanized to lighten much of the heavy work which has retarded our industry. For such modernizing, any lifting of restrictions should help."

**PHILLIP PAOLELLA** of Plasticrete Corporation, New Haven, Conn., is optimistic on the possibility of reconversion. "A continued shortage of labor is expected, especially in the New Haven area with munitions, guns, and tire industries taking all available manpower for several months until the Pacific situation shows more definite signs that military requirements will be less. There has been an extremely large demand for block in this area, farm construction is expected to continue good, and increased industrial expansion will require construction materials."

**FRED REINHOLD** of Anchor Concrete Products Co., Buffalo, N. Y., gives a very optimistic picture. "With V-E Day over we now look forward to an early V-J Day. By June 1 there should be some relaxation of L-41 which will help to take up any slack during reconversion of our plant. Labor supply has improved since May 1. Farm sales are 25 percent of our total volume. Our industry is included among 72 W.P.B. has promised to assist in reconversion problems. We have purchased a six-acre site, and plans are under way for a new factory with bids by July 1, and we expect to be in operation by December, 1945."

**JOHN L. STRANDBERG** of Concrete Building Units Co., Kansas City, Mo., advises, "The effect of the European victory should have a favorable impression on the concrete products industry provided we have a relaxation in the labor market and other restrictions that are now handicapping progress of all manufacturers. Demand for our products will increase due to their accessibility and unrestricted sources of raw materials. The most serious handicap we face today, and this applies for the reconversion period also, is the unjust price range of labor and on our product. If wage and hour restrictions and price regulations were lifted on concrete products, the employment would double and the price range would be in line with the present situation. Our facilities for production are so large that any chance of inflation would be practically nil."

**H. E. KILMER**, Iowa Concrete Block & Material Co., Des Moines, Iowa, believes the possibility of improved business depends on our ability to get competent help. "I feel sure," he said, "we could easily sell two or three times as much material if we could furnish it. From what I can learn, cutbacks in material for the army are very spotted—in our territory so far there has been none."

(Continued on page 132)



## SPECIALTIES Keep Pipe Plant Busy

**Universal Concrete Pipe Co., Waco, Texas,  
plant making concrete water tanks, stock  
troughs, septic tanks, stepping stones, fence  
posts, and well curbing**

By H. E. SWANSON



Eddie Kramer, superintendent, left, and Vernon Cole, plant manager

**L**OOKING to the post-war period, the Universal Concrete Pipe Co., plant at Waco, Texas, has started production of several specialty items. This plant was built in 1941 to supply concrete pipe to the many war plants, air fields, training camps, and government hospitals which were being constructed at that time in the Waco area. While the market for pipe is still good, peak demand has passed and consequently a market for special products is being established.

### Diversify Production

The special items include reinforced concrete water tanks, stock troughs, septic tanks, stepping stones, fence posts, and well curb-rings. Cylindrical shaped stock troughs are poured in steel forms in sizes from 30 in. to 60 in. in diameter and 2 ft. high with a 3½ in. wall thickness. They are also made in rectangular shapes, 6 ft. to 12 ft. in length, 2½ ft. wide, and 2 ft. deep, with a 3 in. wall thickness. The most popular size

has been found to be the cylindrical shape trough, 36 in. in diameter. These troughs are made of reinforced concrete. Specially designed troughs, 60 in. in diameter, have been constructed for the dairy department of the Texas A. and M. College. They are used in experiments with a pressure water system, and have a 2-in. standing overflow pipe that may be removed to drain and clean the troughs and are made with a 2-in. elbow imbedded in the bottom. Water level is controlled by a float valve.

Water storage tanks for ranches are another specialty. They are made in two sections, each 8 ft. high, with a 6-ft. inside diameter, and a 3½-in. wall thickness. The upper half, with a capacity of 1600 gal., is for water storage, while the lower half, which has a 5-ft. 3-in. x 2-ft. doorway, may be used as a pump house, shower bath, wash house, harness room, or general storage room.

The upper half is poured separately from the lower half, the same

form being used for each half. To make the lower half with door opening, a template is attached to the core. A one piece welded cage is fabricated for the entire half unit for reinforcement. For joining the two sections, about an inch of mortar is placed between them, and then the entire joint is plastered, inside and outside. The weight of the top section, about 4¼ ton, holds it in place. The addition of water into the top section adds more weight, which assists in keeping the sections in place. Seepage is eliminated by use of a dense mix and thorough vibration. The overall weight of the two sections is about 8½ ton, and they are installed with special equipment furnished by a hauling contractor.

A specialty unit which has found much favor in the Southwest is a concrete well curb-ring, which is placed in dug wells. All sizes are made with the 30-in. diameter, 2-ft. size the most popular. Due to the large demand, a method of making



Left: Water storage tanks for ranches which are made in two sections, upper section for 1600-gal. of water and lower section for pump house. Right: Both circular and rectangular-shaped water tanks are manufactured



the well rings on a production basis was perfected. The plant superintendent and the machinist devised the idea of manufacturing the rings on a pipe machine, using a 33-in. core with a 30-in. form, thus reducing the wall thickness from 3½ in. to 2¼ in. and the weight per lineal foot from 370 to 220 pounds. This unit has become very popular with well diggers in this area since they can handle the 2-ft. ring with very little mechanical equipment. The average depth of wells in this section is from 12 to 20 ft. Reinforced well rings of tongue and groove type, 30 in. in diameter, are also made in 2-ft. sections with 3½-in. wall thickness.

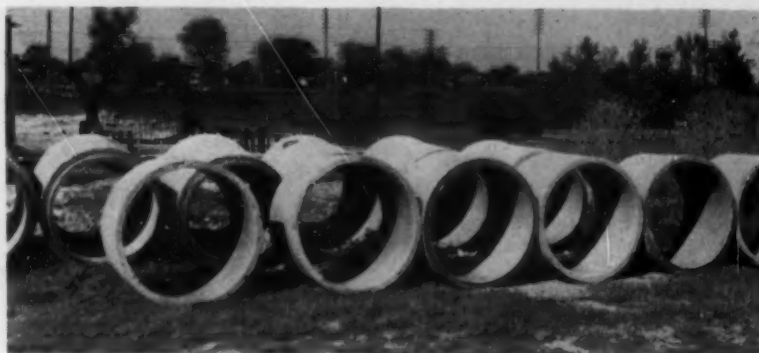
When placing the well rings in a dug well, the most common practice is to leave the bottom three joints open, to allow water to seep through. This is particularly true in sandy soil where water is only 5 to 6 feet underground. By leaving the joints open, water is allowed to seep into the well and thus keep it filled. The balance of the joints are grouted together, while some well diggers feature a plastered joint.

## Concrete Blocks

A good volume of business has been developed in concrete masonry units, a large portion going to farm and ranch buildings such as chicken houses, milk houses, feed and dairy barns, hog houses, and many other out-buildings necessary around large farming and ranching operations. A Stearns Clipper stripper, of 800-block per day capacity, produces 8x8x16-in. and 5x8x12-in. units. This plant recently completed an order for several thousand block to be shipped to a chain of chicken "eating places" which will use the block to build poultry houses. Each poultry house will accommodate 1000 chickens.



Pipe sizes manufactured range from 60-in. down to 6-in. diameter



Pipe used for well casings have thinner walls, 2¼-in., as compared with the 3½-in. standard

Concrete pipe from 6-in up to 60-in. in diameter in 4-ft. lengths, are made on two Universal pipe machines. Concrete is mixed in a 28-cu. ft. Stearns mixer and delivered to the machine by skip hoist. Rubber tired lift buggies transport the pipe

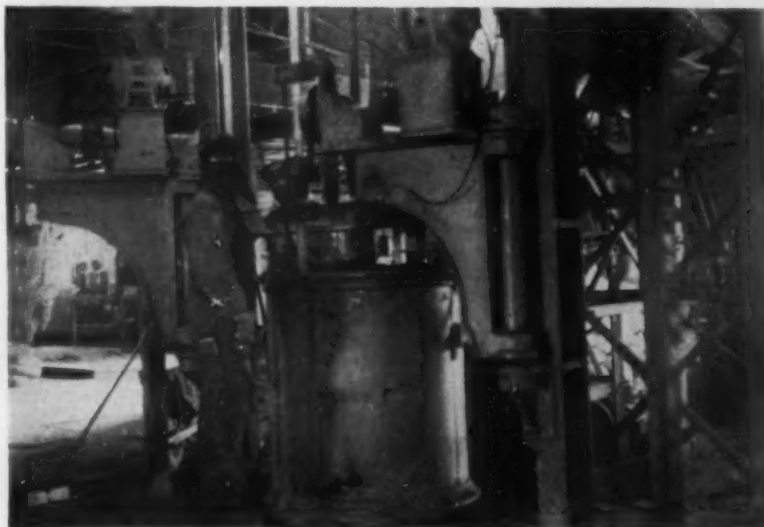
to three curing rooms, 40 ft. wide, 60 ft. long, and 7 ft. high. Steam is generated at 100 p.s.i. by a gas-fired Acme boiler, equipped with a condensation pump. Steam is introduced through a 3-in. pipe to six "Trade-Air" projection heaters, two for each room. These heaters are located under the ceiling in the rooms. These units spray hot vapor over the entire area, maintaining a temperature of 70 to 75 degrees. After curing, the pipe are transported to an 8½-acre storage yard. A 1½-ton Ford truck with winch attachment, operated by power takeoff from the motor, lifts pipe to trailer trucks for delivery.

Drain tile is also produced. An Acme hand tile machine makes 4-through 8-in. tile in one foot lengths.

A well equipped machine shop takes care of all necessary repairs to equipment. Practically all the repair work for the other three Texas plants owned by this company is also handled here. The steel forms for the specialty products were made and machined in this shop. William Koerth, machinist, is in charge of the shop.

This company feels that the agricultural outlet for concrete specialty

(Continued on page 132)



Showing pipe manufacturing equipment used in this plant

# Merchandising

## One Concrete Product Sells Another

**Marion Ready Mixed Concrete Co., Marion, Ind., starts manufacture of concrete block for complete service, particularly to farmers**

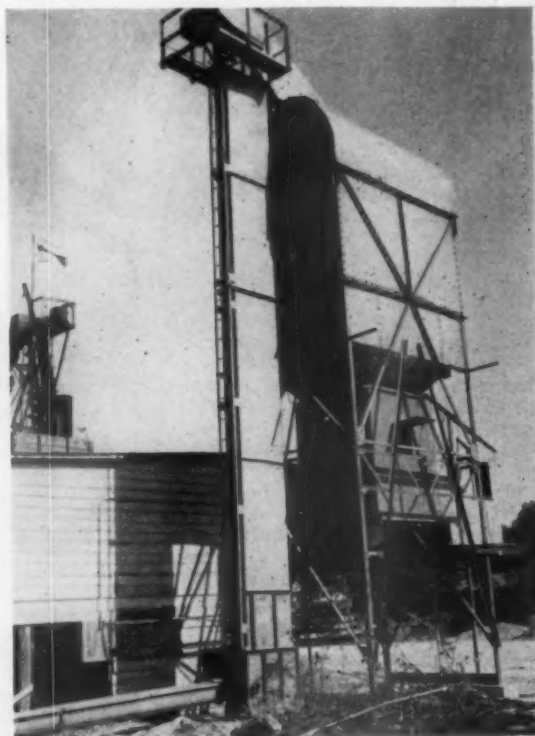
**A** RAPIDLY EXPANDING ready mixed concrete and products plant, the Marion Ready Mixed Concrete Co., Marion, Ind., has recently added a bulk cement setup to increase efficiency and speed up production. This is the most recent addition to this plant. Prior to June, 1943, this company only produced ready mixed concrete. At that time, a Stearns Clipper Stripper was purchased for the production of concrete masonry units, since it was felt that better service could be achieved if the customers could be provided with both products from the same plant. This company also felt that one product would help sell the other, since customers, especially the farm trade, could be serviced with its construction requirements from the same location.

Starting in business in March, 1939, with one transit mixer and one set of bins, this company has expanded until now it operates a fleet of six transit mixers, two sets of bins, a masonry unit plant, and

Semi-automatic controlled bulk cement bin and elevator

the new bulk cement plant. Further expansion is planned with the construction of two steam curing rooms this winter.

The Johnson bulk cement plant, which was installed in June, 1944, includes a 10-in. screw conveyor from the railroad cars to a bucket elevator. The screw conveyor is 32 ft. long and feeds a bucket elevator 40 ft. high. The elevator charges a 500-bbl. steel storage bin, equipped with batcher and scales with a capacity up to 1500 lbs.



### Manufacture Sand and Gravel Block

The addition of the Stearns Clipper Stripper in June, 1943, was the first step taken by this company to augment its ready mixed concrete business with the production of sand and gravel concrete units and Celocrete lightweight slag units. This machine has a rated capacity of 120 standard block per hour, and the local demand for masonry units keeps the machine in operation constantly. At present the units are air cured but erection of the curing rooms during the winter will allow steam curing. Block produced in the plant will be used in the construction of the curing rooms. The present production is 60 percent sand and gravel concrete units.

Ready mixed concrete production averages about 30 cu.yd. per hour and is mixed and transported in six transit mixers. These mixers are 2-cu.yd. Rex units mounted on Ford and International trucks. Local contractors, factories, and farmers are the principal consumers.

L. P. Harris, owner of the Marion Ready Mixed Concrete Co., feels that aggressive merchandising is a large factor in his ability to continue the expansion of his plant. In addition to advertising in local papers which serve the surrounding area, reaching farms as well as the city readers, this company uses several other means of

(Continued on page 133)



In the foreground is the concrete block plant and in the background is the ready mixed concrete plant with convenient rail siding

# Goes ANYWHERE - - - handles ANYTHING up to 10,000 pounds

And the HYSTER Karry Crane is easy to operate. Just one lever controls lifting and lowering. Loads may be hoisted or lowered while traveling. Trunnion steering makes maneuvering fast and easy. Pneumatic tires give traction anywhere. Five-position, quickly-adjustable boom provides for "difficult" reaches. For detailed information about this modern, general utility crane, write for catalog 693.

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## HYSTER



## COMPANY

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## THE POWER Lift Truck



Ericksons have stamina, power, speed and maneuverability. Big pneumatic tires on drive wheels. No paved runways required. All steel welded construction. Speedy hydraulic platform raiser. Simple controls. Write for complete details.

## ERICKSON

LIFT TRUCKS

For Fast Movement of Large Quantities of Block

**ERICKSON SPECIAL EQUIPMENT MFG. CO.**

109 14TH AVE. N. E.

MINNEAPOLIS, MINN.

## Make 6" to 48" CONCRETE PIPE with ONE Machine

**Produce Pipe Profitably**

Universal's "All-Purpose" Machine produces Concrete Pipe in all sizes from 6" to 48"—and shows you a worth-while profit. With a tamping capacity of 680 strokes per minute, your product is more dense, durable, finished in appearance. We can also outfit you for making larger sizes, up to 135".

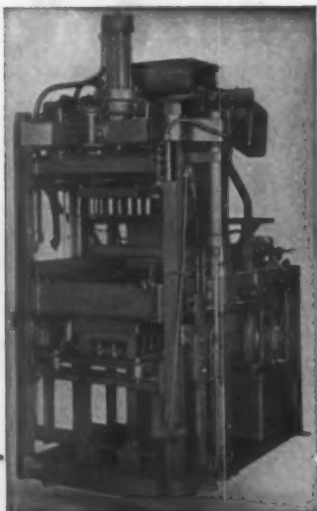
Write today for Catalog and Details.



## CONCRETE PIPE CO.

Columbus 15, Ohio

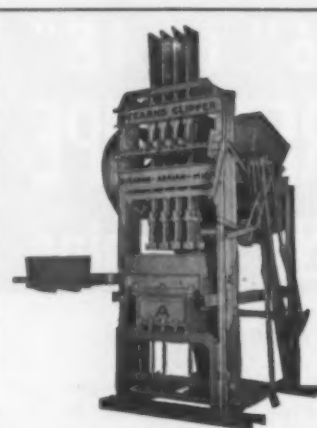




## The Hydraulic Power BLOCK MAKER

Hydraulic power makes the Kent-Vibra-Press a more efficient, longer lasting machine. Its smoothness of action insures long life and low maintenance costs while producing perfect block. Vibration within full floating mold box and full floating cores.

**The KENT MACHINE CO.**  
Cuyahoga Falls, Ohio



## "ANCHOR"

Complete equipment for making concrete, cinder and other light weight aggregate units, including engineering service for plants and revamping of old ones for more economical service. Hobbs block machines, Anchor tampers, Anchor Jr. strippers, Stearns power strippers, Stearns Joltcrete, Stearns mixers, pallets, Straublox Oscillating attachments, etc.

Repair parts for Anchor, Ideal, Universal, Stearns, Blystone mixers and others.

**Anchor Concrete Mch. Co.**  
G. M. Friel, Mgr. Columbus 8, Ohio

## Farm Market

(Continued from page 129)

units offers a big market which will become definitely larger in the post-war period. This market is being developed through close contact with county agricultural agents, home demonstration agents, county judges, and county commissioners. Colored folders, illustrating the products for sale and listing their uses, are mailed in lots of 20 to 30 to each agent for distribution to farmers and ranchers whose names have been secured through mailing list channels. Spot announcements on local radio station WACO have been very successful, especially in reaching rural areas. Definite proof of this has been established by responses to announcements that latest editions of a dated-events war map would be given to anyone calling at the plant and requesting a copy. Numerous personal and phone calls as well as letters were received after these announcements.

### Present Market

At present, one-third of production is in specialty products to the farm and ranch market. Concrete culvert and sewer pipe is being supplied to several government projects including the Blue Bonnet ordnance plant, North Camp Hood, Veteran's Hospital, and McCloskey General Hospital.

"Hec" Eschenbrenner, as he is known to his many friends, is president of the Universal Concrete Pipe Co., Howard Verwohlt is general manager, Vernon Cole is manager and Edw. Kramer is superintendent of the Waco plant.

### Business and V-E Day

(Continued from page 127)

J. L. RICHMOND, Union Concrete Pipe Co., Huntington, W. Va., expresses the opinion that "the European victory will not effect our present status. Our principal concern is labor, and unless a lot of war contracts are cancelled, this condition will not be improved. Most manufacturers of concrete products need considerable new and improved machinery in order to meet after-the-war demands and it will take quite a while to obtain such equipment after restrictions are removed. Concerns in this area have as much work as they can handle with present available labor. There will be plenty of work as soon as material and labor are available."

H. W. CHUTTER, Jourdan Concrete Pipe Co., Fresno, Calif., advises, "Relaxation of restrictions on iron and steel will start many large western reclamation projects, such as Friant-Kern canal, and stimulate concrete pipe business, particularly irrigation, which is very good now with individual farmers prosperous as a result of the war demands for food and fibers, and should continue for some time after war. Relaxation of build-

ing restrictions will benefit masonry business because of lumber shortage. Postwar plans in West indicate large demand for concrete pipe and concrete structural products."

## Fire-Resistant Block

GRAYSTONE CONCRETE PRODUCTS CO., Seattle, Wash., has announced through Ralph H. Young, that it is now producing a new line of 4-hour fire-resistant concrete load-bearing tile which meet the Seattle building code requirements for Class A concrete block as set forth in Section 386; also A.S.T.M. Standard Specifications for Hollow Load Bearing Concrete Masonry units, designation C90-39. Use of the new Class A blocks eliminates the need for plastering which is required when using Class B block in structures having an extreme fire hazard. New blocks are suitable for buildings housing paint manufacture, cleaning and pressing establishments, garages and warehouses.

## Start Block Manufacture

CINDER BLOCK Co., Hampton, Va., a new concern, planned to start manufacture of cinder concrete block in April or May this year. Monthly production will be 80,000 standard 8- x 8- x 16-in. units or equivalent. Equipment will include a No. 9 Stearns Joltcrete machine and a complete cinder crushing system with belt conveyors. Block will be steam-cured.

Partners in this new enterprise are Clyde Lamkin, formerly with the Lehigh Portland Cement Co., who will act as manager of the plant; Harry G. Fowler, and L. S. Ranhorne, who is in the ready mixed concrete business in Hampton.

## Start Products Plant

ALBANY CONCRETE PIPE AND PRODUCTS Co., Albany, Ore., has a lease on the building at 15th and Ferry streets formerly occupied by the Dutton Lumber Co. Initial cost of machinery and equipment at the new plant will be in excess of \$12,000. It is planned to make drain tile, concrete masonry, and other concrete products.

## Buys Pipe Concern

JOHN FREITAS of Ukiah, Calif., has purchased the local plant of the Healdsburg Concrete Pipe Co., in Ukiah. Mr. Freitas is owner of the Ukiah Gravel & Cement Co., and plans to expand his operations. Al Sousa of the Healdsburg plant will continue as manager.

## Sell Silo Seal

THE MCPHERSON CONCRETE PRODUCTS Co., McPherson, Kans., has applied to the Secretary of State of Kansas for registration of the name "Silo Seal," a paint for coating the inside walls of concrete silos.



(Continued from page 130)

exploiting their product. Distribution of pencils, book matches, knives, and calendars are some of the promotion media used to bring the name of the company before the public. As much as these methods of advertising do to help sell the product, Mr. Harris is of the firm opinion that a greater



Ready mixed concrete batching plant

aid is personal contact and the production of a product that will sell itself.

### Chile Cement

PRODUCTION of cement in Chile's only cement plant in operation El Melon in La Calera amounted to 327,581 metric tons in the 11-month period, January to November, 1944, compared with 374,747 metric tons during the full year of 1943. Cement imports in this period amounted to 33,820 metric tons, the largest quantity imported in any year since 1930. No cement is exported. Installation of new equipment at El Melon late in December, 1944, is expected to increase production by about 120,000 metric tons.

### Stucco Cement

PACIFIC PORTLAND CEMENT Co., San Francisco, Calif., has introduced an improved "Hi-Plastic" stucco cement which is said to have a high degree of plasticity which gives greater workability and more cubic yards per sack. Although designed especially for stucco, it is also claimed to be adaptable for mortar, gunite jobs and uses where high plasticity is a factor.

### Ready Mix and Block

WATERTOWN CEMENT PRODUCTS Co., Watertown, S. Dak., is now supplying ready mixed concrete as well as concrete masonry units. Merrill Allen, manager of the company, has announced that ready mixed concrete will be supplied within a radius of 10 miles of Watertown.

## POWER TAMPERS

## HAND MACHINES

## POWER MIXERS

## FLUE BLOCK MACHINES

## POWER PRESSES

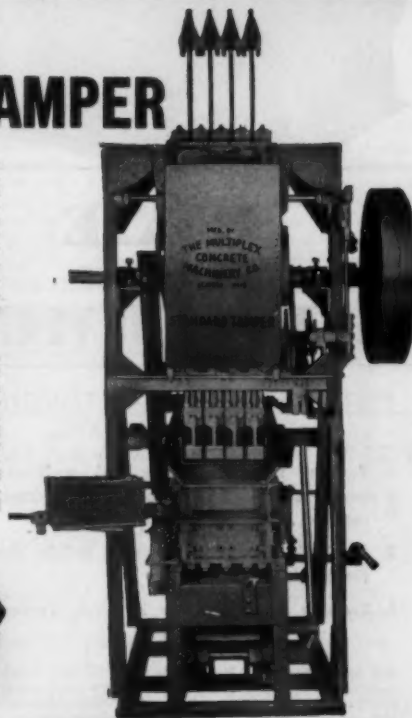
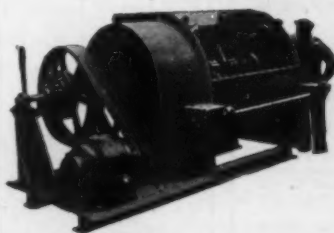
## HAND PRESS STRIPPER

# WELL-EQUIPPED BLOCK PLANTS USE MULTIPLEX

## MULTIPLEX STANDARD TAMPER

Here is the mainstay of many well-equipped concrete block plants. Every mechanical improvement has been embodied in the rugged, compact Multiplex Standard Tamper to insure the production of quality blocks. With fewer parts than any other tamper, its proper balance and freedom from vibration minimize operating troubles. There are no chains, sprockets or clutches to replace.

The Multiplex 8-bar Standard Tamper produces from three to four 8 x 8 x 16 in. units a minute—can be used for making plain and stripper, or face blocks on one base. Time feeding while tamping and hopper agitation account for better units. The strike-off hopper assures a smooth top. The Multiplex Standard Tamper has a rugged, all-steel welded frame and reinforced moldbox.



### FOR A BETTER MIX AT LOWER COST

Multiplex Multi-Mixer with reverse screw-type action insures fast and thorough mixing of every batch. This is the machine for an "assembly line" uniform product at all times.

WRITE FOR your copy of Catalog No. 29 on the complete line of Multiplex Machinery.

THE MULTIPLEX COMBINATION  
• Beauty in Block  
• Low Cost Production  
• Simple Operation



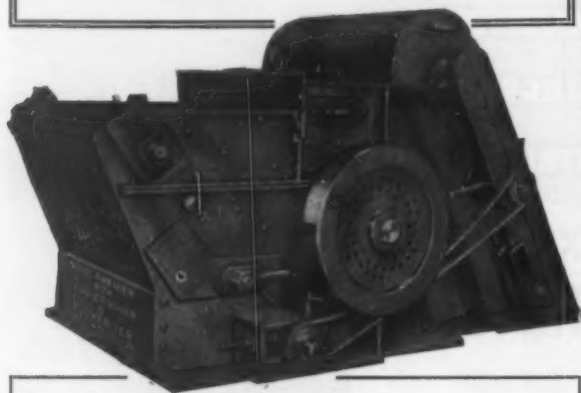
### Flue-Block . . . A Profitable Sideline

The Multiplex Flue Block Machine makes ventilated, solid or lightweight units, including all attachments for ventilator and stove pipe openings. A great money-maker for wide-awake producers, it is simple, easy and profitable to operate.

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ELMORE, OHIO

**WHEN PRODUCTION  
CANNOT LAG  
DIXIE GETS THE CALL!**



## **DIXIE Non-Clog HAMMERMILLS**

**NOTE THESE TYPICAL TOUGH JOBS  
LICKED BY DIXIES**

1. Replaced four crushers for high moisture content bauxite . . . cut power in half . . . reduced drying costs . . . increased production.
2. Efficiently crushing clay balls to reclaim phosphate in Florida phosphate plants.
3. Crushing phosphate muck in T.V.A. Tennessee plant.

### **HERE'S WHY . . .**

The Dixie Non-Clog Hammermill is the only crusher with a moving breaker plate. Provides positive mechanical feed. No manual pushing of material needed. Even the most plastic, wet, clayey material will not slow production or clog hammers. This feature alone has saved the cost of 10 men in one company!

And because the Dixie moving breaker plate can be moved forward or backward from the hammer points, quality and size of production can be controlled. This feature provides additional assurance against clogging. These are but two of Dixie's outstanding features. Send coupon below for free booklet, "More Efficient Crushing of Raw Materials" which gives complete facts.

**DIXIE MACHINERY MFG. CO.**

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Please send free booklet on Dixie Non-Clog Hammermills. We want

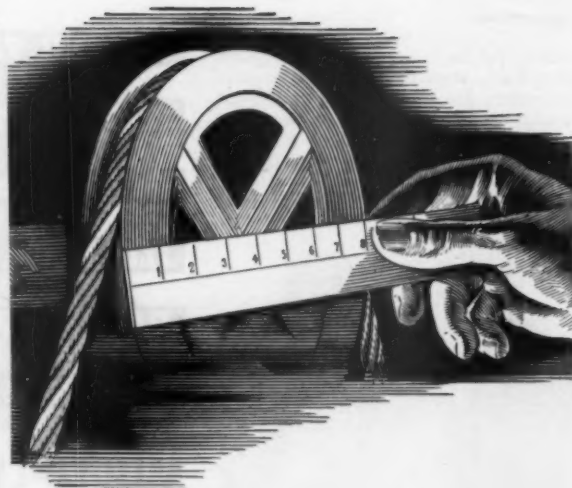
to crush.....

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Company.....

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PREFORMED YELLOW STRAND**

In a lot of rock-handling equipment, old and new models will have one feature alike: small sheaves—perhaps accompanied by small drums. Either is tough on wire rope. Both should remind you to *minimize* their fatiguing effect by using *Preformed Yellow Strand*.

The *flexibility* of *Preformed Yellow Strand* enables it to hold its own *longer* against fatigue aggravated by severe bending, high speeds and heavy loads. The wires and strands can concentrate on the *external* bending job because *internal* stresses have been virtually neutralized during manufacture.

Along with greater endurance, smooth-running *Preformed Yellow Strand* offers faster installation . . . higher kink-resistance . . . increased safety. Specify *Preformed Yellow Strand* by name—for shovels, draglines, clam shells and other heavy-duty machines.

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Branches: New York, Chicago, Houston, Portland, Seattle  
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**Lima Advantages:**  
 INDEPENDENT CLUTCHES  
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# Made for the Job..

Do not overlook the versatility of a LIMA shovel when buying excavating machinery. There are places and purposes where only a power shovel is the answer to your problem. LIMA shovels are designed to work in wet, muddy ground and tough rock digging as well as dry, loamy dirt. With a LIMA you are prepared to dig earth, rock, coal, ore, clay and many other types of

material with assurance of big output regardless of the type of work. In addition to having a fast economical excavator you also have in a LIMA, a material handling crane, pull-shovel or dragline by simply changing front end equipment. When you buy for the future buy an all purpose LIMA and be prepared for any job.

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 3/4 YD. TO 5 YARDS

CRANES  
 13 TONS TO 100 TONS

DAGLINES  
 VARIABLE

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Also Makes 1 1/4", 3/4" or Agricultural Limestone in One Operation

By reducing large rock to 1 1/4", 3/4" or agricultural limestone in one operation, the "Slugger" has enabled operators to produce these sizes at a low cost per ton and with small investment.

Features include—Manganese steel hammers, heavy duty bearings, adjustable breaker plate, hammer adjustments overcome wear, economical to operate.

The "Slugger" is built in Seven Sizes—from 30 to 150 horsepower—write for illustrated bulletins today.

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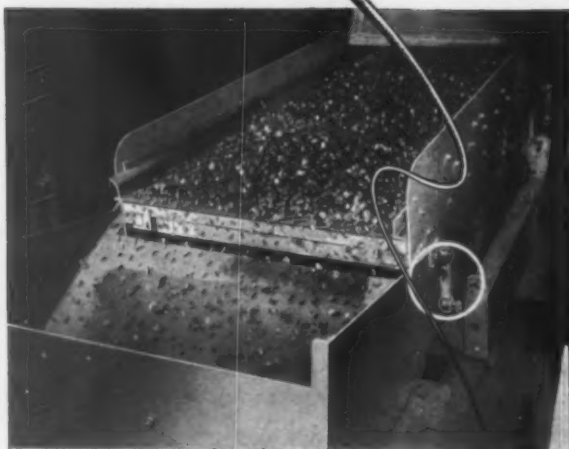
CUTAWAY VIEW  
 of "Slugger" showing  
 heavy duty hammers,  
 liners and discs.



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 OLDEST AND LARGEST BUILDERS OF HAMMERMILLS IN THE WORLD  
**WILLIAMS**  
 PATENT CRUSHERS GRINDERS SHREDDERS



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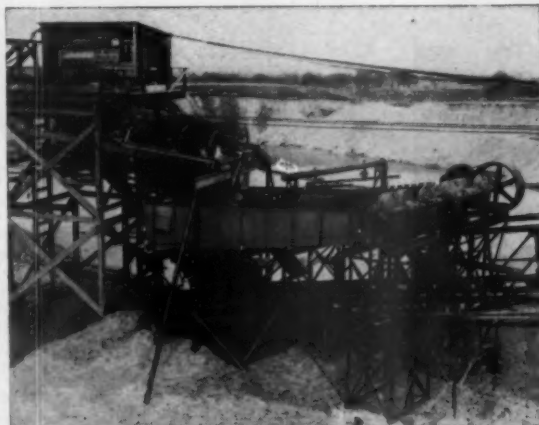
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Insure Greater Capacity . . . Lower  
Costs . . . Clean Products . . . Con-  
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with Less Stripping



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Sand and Gravel in a large Mid-Western plant.

*Here are a dozen reasons for  
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on heavy duty equipment,

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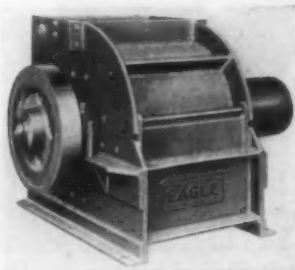
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**IMPACT BREAKER  
AND PULVERIZER**



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LOADER**

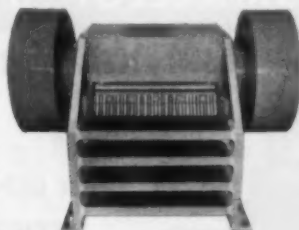
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The Eagle Impact Breaker and Pulverizer is an outstanding producer of agricultural limestone and cubical shaped aggregates. It is a strong compact unit with a wide range of reduction. The entire hammer assembly is of a distinctive design.

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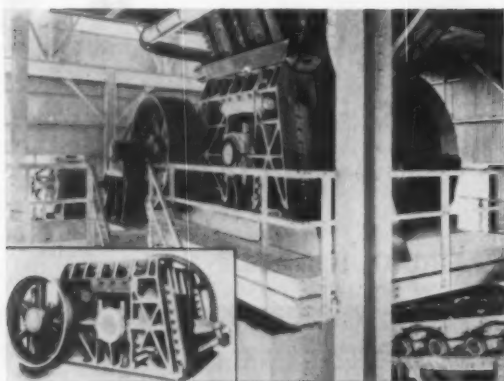


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JAW CRUSHERS  
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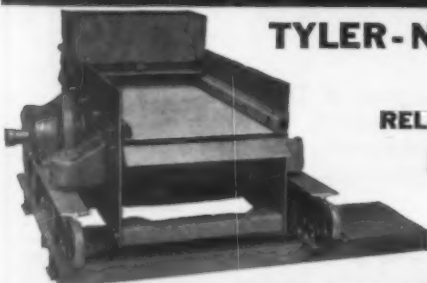
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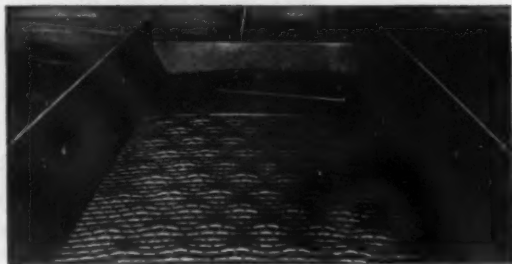


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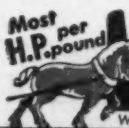
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## WILFLEY centrifugal SAND PUMPS

for Slurries, Sand Tailings, Slimes, Acid Sludges



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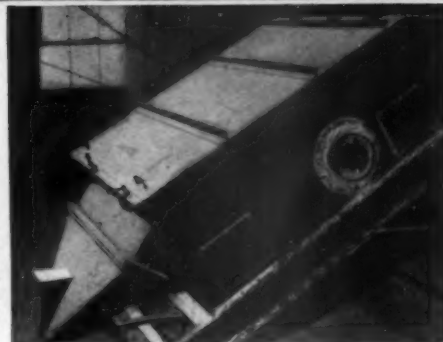
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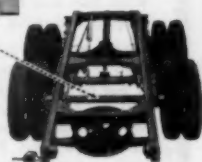
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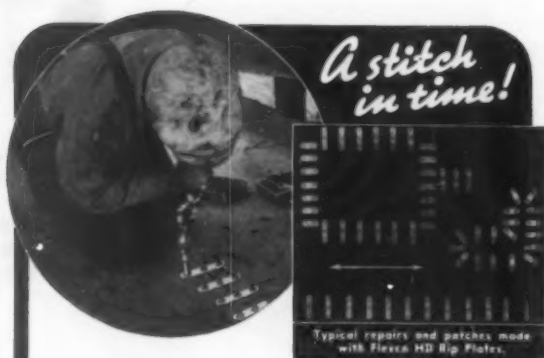
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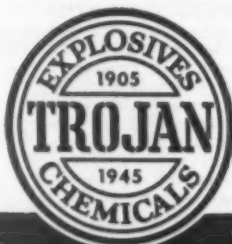
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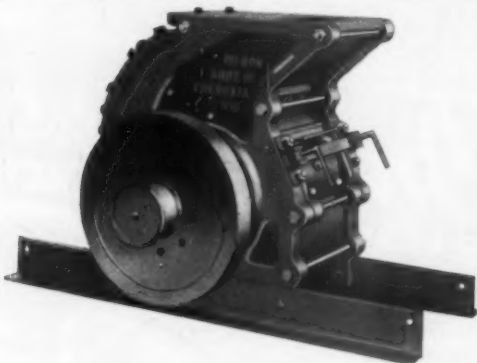
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42"	5	1/8"	1/16"	20"	4	1/8"	1/32"
36"	6	1/8"	1/16"	18"	4	1/8"	1/32"
30"	6	1/8"	1/16"	16"	4	1/8"	1/32"
30"	5	1/8"	1/16"	14"	4	1/16"	1/32"
24"	5	1/8"	1/32"	12"	4	1/16"	1/32"
24"	4	1/8"	1/32"				

Inquire For Prices - Mention Size and Lengths

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Width	Ply	Width	Ply	Width	Ply
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16"	6	10"	5	5"	5
14"	6	8"	6	4"	5
12"	6	8"	5	4"	4
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	40 "	10.50
	50 "	12.00
1 1/2"	25 "	15.00
	35 "	10.00
	50 "	14.00
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3/4"	25 "	6.25	2.50 "
1"	25 "	12.50	2.50 "
	50 "	10.00	3.50 "
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### STEAM GENERATING PLANT—COMPLETE

3-150 H.P. 150 lb. Keeler H.W.T. Boilers.  
1-350 H.P. 150 lb. Stirling H.W.T. Boiler.  
1-250 H.P. 150 lb. McNaull H.W.T. Boiler.

### FEED PUMPS AND AUXILIARY EQUIPMENT

1-250 H.P. Fleming Engine connected to 290 K.W.A.C. Generator.  
1-500 K.W. Curtis Turbine Connected to G. E. 500 K.W. A. C. Generator.

CONDENSERS, PUMPS, PANELS, TRANSFORMERS AND MISCELLANEOUS PARTS PRICED TO SELL. COMPLETE OR AS SEPARATE ITEMS.

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14 and 25 Ton Plymouth Standard Gauge Gasoline Locomotives. Automatic air brakes. Electric lights and starter.

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4' and 5 1/2' Symons Cone Crushers. 2 Yd. Hercules Heavy Digging Clamshell bucket.

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10 ton Steel Guy Derrick. 90' Boom. 24x18" American Ring Roll Crusher.

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**AIR COMPRESSORS**  
BELTED: 355, 525, 670, 1090, 1300 & 1570 Ft.  
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CLAMSHELL BUCKETS, SKIPS & GRAPPLERS  
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2 Yd. OWEN Type S Material Handling  
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18 Steel Skips 5 1/2 x 2 x 2 1/2.  
5 Ton Bucyrus Rock Grabs

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1-16 Yd. 160' Boom Electric Caterpillar Drag-  
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25 Ton BROWNING & 30 Ton AMERICAN Loco.  
25 Ton LINK BELT K-48 Electric, 70 Ft. Boom.

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1 Yd. NORTHWEST Gas.  
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9-50 ton std. ga. heavy duty flat cars.  
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Gas: 15, 30, 60, 100 & 120 HP.  
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75, 90, 180, 200 HP. P. M. Engines.  
175 KVA Werthington 3/60/2300.  
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10,000 Gal., 15,000 Gal. & 20,000 Gal. Cap.

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8, 10 and 14 Ft. Separators, Garco & Bradley.

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36x60 Fairmount & 36x20 Diamond.

**JAW CRUSHERS**  
10x8, 12x7 1/2, 14x7, 15x9, 15x10, 16x9, 16x12, 16x10,  
18x11, 20x8, 20x6, 20x10, 20x12, 20x12, 30x15,  
30x13, 36x15, 36x20, 36x18, 36x14, 36x9, 36x6,  
36x10, 36x24, 42x9, 48x24, 48x30, 60x42, 84x66,  
36x16, 52x36.

**CONE & GYRATORY CRUSHERS**  
5 No. 19, 25, 37 & 49 Kennedy.  
18 in. 24 in. 30 in. 36 in. & 48 in. Symons Disc.  
4-10 T2 Traylor 4 ft. Gyratory.  
4-Non. 5, 3 & 6 Austin Gyratory.  
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800 Ft. 30 in., 1042 Ft. 24 in., 517 Ft. 20 in.,  
207 Ft. 18 in., 550 Ft. 16 in., 300 Ft. 14 in.  
IDLER: 54 in., 48 in., 36 in., 30 in., 24 in.,  
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Head & Tail-Pulleys-Takeup for all sizes.  
Steel Frames: 2,000 Ft. 24 in., 30 in. & 36 in. Sections

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36 in. x 20 Ft., 2 Ft. x 20 Ft., 4 Ft. x 20 Ft., 5 Ft. x 16 Ft.,  
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IDLER: 54 in., 48 in., 36 in., 30 in., 24 in.,  
20 in., 18 in., 16 in. & 14 in.  
Head & Tail-Pulleys-Takeup for all sizes.  
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**STEEL DERRICKS**  
GUY: 9 Ton 85 Ft. Boom, 15 Ton 100 Ft. Boom,  
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STIFF LEG: 5 Ton 70 Ft. Boom, 15 Ton 100 Ft.  
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GASOLINE: 3 Ton, 5 Ton, 8 Ton, 12, 14, and 30 Ton.  
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ELECTRIC: 2 Ton, 5 Ton, 8 Ton, 40 Ton.  
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VIBRATING: 2x4, 3x6, 12x6, 3x5, 3x5, 4x5, 4x5,  
4x10, 4x12, 2 & 4 x 12, 12 & 2 Decs.  
HUMMER ROTEX, NIAGARA & ROBINS.  
REVOLVING: 3x12, 3x16, 3 1/2 x 18, 3x24, 4x16,  
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COMPLETE PLANTS BOUGHT AND SOLD  
60 East 42nd Street NEW YORK 17, N. Y.

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### ELECTRIC WELDERS

- 3-150 amp. Lincoln Vertical Electric Driven
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We offer all of the above equipment in guaranteed mechanical condition BUT AT CONSIDERABLY LESS THAN 85% CEILING PRICES.

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Business Established 1898.

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- 3-35-Ton Heisler, Standard Gauge, Geared Type, Steam, Class 35-8-33, Good Operating Condition. No Reasonable Offer Rejected.
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- 1 10' Chapman Gas Producer with Agitator
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- Jeffrey Coal Crusher
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- 3 Large Steel Lime Bins
- 2 stacks

**VERMARCO LIME CO.**  
West Rutland, Vermont

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- 1-Allis-Chalmers 9'x70' Rotary Kiln
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- 1-Set of 18"x10" Crushing Rolls.
- 1-Blake Jaw Crusher, 9"x15".
- 5-Oliver Rotary Filters, 8'x10', 6'x6', 5'x8', 3'x2'.
- 2-Bucket Elevators 20' to 75'.
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**BRILL Equipment Co.**  
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- Pullshovel Attach. for Lorain 75A or B.
- 1 Yd. P & H Model 600, Comb. Shovel-Crane.
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- 80-ton American Steam Loco., Std. Gauge.
- 20-ton Plymouth Loco. Gas, Std. Ga. 50 HP Electric Hoist.
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- 1 Yd. and 1/2 Yd. Dump Buckets.
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- 1-Lift Truck.
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- One 5 ton Plymouth Gas Locomotive, 36" gauge, in good working condition.

**WAPAK SAND & GRAVEL CO.**  
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- 1-150 H.P. Diesel Engine.
- 1-110 cu. ft. air compressor.
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- Compressors mounted on trailers.
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**STIERS BROS. CONSTRUCTION CO.**  
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**EQUIPMENT  
CORPORATION  
of AMERICA.**

**WE SERVE 4 WAYS**  
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## FOR SALE

50" x 24" Champion Jaw Crusher.  
36" x 18" Farrel Jaw Crusher.  
30" x 13" Farrel Jaw Crusher.  
19" x 8" Climax Jaw Crusher.  
Cedar Rapids Portable Sand and Gravel Plants on rubber tires, capacity about 75 yds. per hr., complete with gasoline motor.  
3' x 12' Symons Double Deck Screen.  
4' x 16' Symons Double Deck Screen.  
5' x 10' Niagara Single Deck Screen.  
3-Worm Speed Reducers—925 to 1, heavy duty, 15 HP.  
30" x 160' center Belt Conveyor, complete with channel iron frame and belt.  
Nelson Bucket Loader on rubber tired wheels.  
Small Link-Belt Bucket Loader on iron wheels.

**Frank A. Kremser & Sons, Inc.**  
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Phone: Leesport: 100  
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Blackline Outfit—consisting of 100' Page Mast, 125 h.p. Mundy 2 drum hoist, 1 1/2 yard Sauerman bucket, complete with guy lines and slack-line cables. Is erected and can be demonstrated on short notice.  
3—Plymouth gasoline locomotives, Model DCL, 8 ton, 36" gauge.  
12—Western and Koppel 4 yard wooden side dump cars, 36" gauge.  
Approximately 1,300' 70 lb. rail, 1,300' 60 lb. rail and 1,300' 40 lb. rail. 2-70 lb. frogs and switches.  
1—Allis-Chalmers Model "LO" oil burning, track-type tractor and 1-7 yard Continental scraper.  
1—10"x20" Acme jaw crusher.  
1—Marion Model "60" railroad shovel.

Address:  
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Austin Western 21x38 Roller Bearing Jaw Crusher. Excellent condition. Ohio location. No dealers. Available about June 1st.

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One new 40 cu. ft. volume traveling batcher.

**Domine Builders Supply Co., Inc.**  
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Guaranteed used Steel Pipe and Boiler Tubes  
Wood and Steel Tanks  
Buildings, Valves and Fittings  
**JOS. GREENSPON'S SON PIPE CORP.**  
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3 Drum American 100 HP Electric—Separate Swingers.  
15-Ton Steel Guy Derrick. 130' Mast and Boom—Bull Wheels.  
7 1/2 & 10 Ton Steel Guy Derricks.  
10 Ton American Derrick Irons.

### Locomotives

6 Ton Battery Electrics, 36" ga.  
8 Ton Battery Electrics, 36" ga.  
12 Ton Plymouth Gas, 36" ga.  
3—Conway Muckers, 36" ga.

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#### ALL OR IN PART

Sand and Gravel Plant, including Jaw Crusher, Gyrotory Crusher, Conveyors, Vibrating Screens, Sand Classifiers, Extra Heavy Scrubber, Water Pumps, Sand Pumps, Feed-O-Weights, Weightometers, Trestle and Tripper and Auxiliary Equipment.

#### ALSO

Approximately 9 miles of Conveyor, complete with belting, pulleys, troughing and return idlers and drive equipment.

All offered subject to prior sale.

For Particulars Write  
**COLUMBIA CONSTRUCTION CO., INC.**  
Box 579, Redding, California  
Telephone Redding 1440

### FOR SALE

1—200 H.P. Allis-Chalmers Motor, 580 R.P.M., 440 V. 3 P., 60 C.  
1—250 H.P. Westinghouse Motor 575 R.P.M. Induction Type, 220 V.  
1—150 H.P. Westinghouse Motor.  
1—225 H.P. Allis-Chalmers Motor, 580 R.P.M., 2200 Volts.  
1—Westinghouse Steam Turbines to 375 K.V.A. 2200 Volts Generator.  
1—350 H.P. G. E. Induction Motor, 220 Volts.  
1—300 H.P. G. E. Motor, 600 R.P.M., 440 Volts.  
1—5 Ft. Radial Drill.  
1—4 Ft. Radial Drill.  
1—Planer 25"x25"x36" Travel.  
1—6" Georgia Iron Works Pump and Motor.

**W. M. SMITH & COMPANY**  
P. O. Drawer 1711  
BIRMINGHAM 1, ALABAMA

### LOCOMOTIVES

1—20-ton Plymouth standard gauge gasoline.  
1—20-ton Whitcomb diesel 36" gauge.  
1—57-ton Baldwin type 0-6-0 standard gauge saddle tank.  
2—67-ton American type 0-6-0 standard gauge separate tenders.  
2—78-ton Baldwin type 0-6-0 standard gauge side tanks.

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Girard Trust Co. Bldg., Philadelphia 2, Pa.

### SHOVELS—CRANES

Monaghan Model 3W Walker dragline 70' boom. F.M. Diesel engine power.  
Monaghan Model 3W elec. dragline. Excellent condition.  
Marion 1 1/2 yd. Shovel & Crane, 65' dm., gas.  
Marion 37 electric shovel 1 1/2 yds.  
Marion 37 shovel steam 1 1/2 yds.  
Lima Model 101, shovel-crane 1 1/2 yds.  
Byers Masillon 1 yd. shovel, gas, rebuilt.  
Lorain 75B Shovel and Crane, 1 1/2 yds.  
P & H Model 1250 elec. dragline, 2 1/2 yds.  
P & H 650 Combination Shovel-Crane, 1 1/2 yds.  
P & H 600 Shovel, gas.  
P & H 203A, 8 ton Truck Crane.  
General 1 1/2 yd. Shovel-back hoe and Crane.  
Bucyrus-Erie 41B 1 1/2 yd. steam shovel and crane.  
Bucyrus-Erie 50B Steam Shovel, High lift.  
Bucyrus-Erie 20R 1 yd. Electric Tunnel Shovel.  
Thew-Universal Model 35 Shovel-Crane.  
Byers Bear Cat 1/2 revolving crane, 5-ton cap.  
Byers Bearcat 1/2 revolving shovel.  
Otis Lidgerwood 1 yd. Crane on Wheels.

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Allis Chalmers W8-488 Tractor with 8 yd. hydraulic scraper.  
Allis-Chalmers Tractor Model WO.  
Int. TD15 Tractor with angle dozer.  
Allis-Chalmers K Tractor with bulldozer.  
Allis-Chalmers Model L Tractor with bulldozer.  
2 Dempster Dumpsters with 20 buckets.  
Kennedy-Van Saun Rotary screen 4'x18".  
Bucket Elevator, vertical, 35', 22" buckets.  
B.S. 12 ton, 3 wheel Roller, gas.  
B.S. 10 ton, 3 wheel Roller, steam.  
Galion 10 ton, 3 wheel Roller.  
4 Sterling Dump Trucks, Diesel, 12 yd. bodies.  
3 Mack Dump Trucks, Diesel, 12 yd. bodies.  
Kennedy-Van Saun Rotary Screen 4'x18".  
Allis-Chalmers Com. Pump, electric, 3500 GPM.  
3 Sterling Diesel Dump Trucks, 12 yd. bodies.  
Drill Steel 1 1/4", bitting and shanked. Various lengths.  
Ingersoll-Rand Model 50 Drill Sharpener, complete.  
500 Drill Bits, I-R and Timken. Various sizes.

### CONCRETE PLANT AND EQUIPMENT

Complete Ready Mix Concrete Plants.  
Transit Truck Mixers from 2 yds. to 5 yds.  
Hesser Super Tamping Concrete Block Machine.  
Johnson 200 yd. Octo Bin, 4 comp.  
Fuller Kinyon Bulk Cement Unloader, portable.  
Koehring 34E Dual Drum Paver.  
Peters: 2 Koehring, 1 Multifooter, 1 Rex 27E.  
Erie steel 3 comp. aggregate, 100 tons.  
Fuller Kinyon Type H cement unloader.  
Erie Batching Plant, 3 comp. aggregate, one cement.

### CRUSHER—CRUSHER PLANTS

Roll, 54x24, 54x20, 48x36, 30x24.  
Al-Chalmers 42" Gyrotory.  
Gyrotory Crusher: K.V.S. 30, 37-8, 49: 33, 8A, 8B; Traylor 8"; McCully 13", 8", 6".  
Allis-Chalmers 6" fine reduction crusher.  
Jaw: 6x12, 9x16, 10x20, 14x24, 12x36, 13x30, 16x32, 24x50.  
Complete Rock Crushing, Sand and Gravel Plants.

### BUCKET—STONE SKIPS

Blaw-Knox 1/2 yd. Clam, digging.  
Hayward 1/2 yd. Clam, digging.  
1/2 yd. Williams Clamshell, digging.  
1/2 yd. Halse Clamshell, rehandling.  
1/2 yd. Halse Clamshell, rehandling.  
Erie 1/2 yd. Clamshell, rehandling.  
Hayward 1/2 yd. Standard Orange Peel.

### LOCOMOTIVES—CARS

Baldwin 50-ton, steam Locomotive, with tender.  
American 40-ton, steam, Saddle tank.  
Vulcan 30-ton, steam, saddle tank.  
Vulcan, 25-ton steam saddle loco.  
Whitcomb 25-ton Diesel electric standard gauge locomotive.  
Whitcomb 20-ton 36" gauge Diesel locomotive.  
Whitcomb 20-ton std. ga. loco.  
Whitcomb 14-ton Diesel, 36" gauge.  
Vulcan 8-ton, std. gauge, gas.  
Vulcan 6-ton, gas, 36" gauge.  
Porter 12-ton, Saddle Tank, steam, 36" gauge.  
2 Western Steel, 20 yd. Air Dump Cars.

**RICHARD P. WALSH CO.** • 30 Church St. • New York

### LOCOMOTIVES

1—80 ton Baldwin 0-6-0 separate tender switcher, built 1925, A.S.M.E. boiler, piston valves, Walschaerts valve gear, now being overhauled and brought up to date on all I.C.C. requirements.  
1—70 ton American 0-6-0 separate tender switcher, built 1920, superheated boiler, piston valves, Walschaerts valve gear, oil burner but can convert to coal, now being rebuilt and brought up to date on all I.C.C. requirements.  
1—26 ton American 0-4-0 saddle tank, standard gauge, A.S.M.E. boiler, entire new firebox, completely overhauled, coal burner.  
2—28 ton Porter 0-4-0 saddle tanks, standard gauge, built in 1928 and used only 15 months, A.S.M.E. boilers, oil burners, Walschaerts valve gear. These locomotives are in very fine condition and ready to go to work.

1—20 ton Whitcomb diesel-mechanical 36" gauge locomotive, four wheel type. This locomotive built in 1936 and has had only light service. It is completely rebuilt with new wheels, chains, sprockets, reversing gear, and improved type bronze clutch plates. Caterpillar V-8 engine, 4 speeds each way, link-and-pin couplers.

1—Westinghouse 10 1/2" locomotive type cross-compound air compressor, rebuilt, suitable for either locomotive or stationary installation.

**Birmingham Rail & Locomotive Co.**  
BIRMINGHAM 1, ALABAMA

## FOR SALE

### CONVEYORS AND PARTS

1800' 48"x38" ply prewar conveyor belt.  
700' 30"x38" ply prewar conveyor belt.  
30' trough belt conveyor, 125'.  
24' trough belt conveyor, 100'.  
New and used conveyor belt, pulleys, idlers.  
Jeffrey Foundry mold type steel conveyor.  
42"x150'.  
Steel Plate Conveyor, 47"x30'.  
26' wide flat conveyor, 19' center.  
Link-Belt single flight conveyor, 10"x25'.  
Belt trippers for 14", 16", 18" belt. Automatic.  
SCREW-TAKE-UP bearings from 12" to 12".  
Screw and gravity conveyors.

### BUCKET ELEVATORS, CHAINS, PARTS

Bucket elevator with 9" buckets on belt, 50'.  
Bucket elevator with 10" buckets on chain.  
Bucket elevator with 12" buckets on chain.  
20' bucket elevator, 60' on 847 chain.  
Continuous belt elevator, 12" buckets, 40'.  
Continuous 14"x40' bucket elevator on belt.  
Continuous 14"x50' bucket elevator on chain.  
Encased bucket elevators of several heights.  
Grain elevators 5" to 18" buckets, on belt.  
300' Jeffrey roller chain, No. 1123, with attachments.  
Nos. 847 and 825 chain with attachments.  
1000 ft. Exarta malleable chain, Nos. 124 and 114.  
Assortment of new roller chain sprockets.  
Chain for elevator and driving.

### CRUSHERS, ROLLS, MILLS

Buchanan double roll crusher, 14"x30" C. machine.  
A-C 16"x42" double roll crusher.  
Sturtevant Mill laboratory roll crusher, 5"x7".  
Robbins double roll coal crusher, 24"x30".  
Link-Belt single roll coal crusher, 24"x24".  
Sturtevant Mill No. 8, Rotary Fine crusher.  
Midwest No. 2 hammermill.  
Coal pulverizer with roller bearings, Simplex.  
8 tons of steel crushing balls, 1" to 2".  
American Standard 24" Disintegrator.  
New Holland 10"x12" crushing rolls.  
Traylor Bulldog 11" gyratory crusher.  
Cedar Rapids 15"x24" jaw crusher.  
Heavy Duty 9"x16" jaw crusher.  
New England 11"x20" jaw crusher.  
A-C No. 3 gyratory crusher with short head.  
Acme 12"x21" jaw crusher.

### VIBRATING AND REVOLVING SCREENS

Allis-Chalmers double deck 4'x10' vibr. screen.  
Allis-Chalmers double deck 3'x8' vibr. screen.  
Gyrax double deck 4'x10' vibrating screen.  
Simplicity three deck 3'x6' vibrating screen.  
Leahy single deck 4'x8' double vibrator screen.  
3' x 1' rubber single deck 3'x5' vibrating screen.  
1 Hammer single deck 4'x5' vibrating screen.  
1 Hammer single deck 4'x7' vibrating screen.  
15 cycle generators for Hammer screens.  
Revolving screens: 4'x20' and 6'x18".  
Revolving 30" conical screen.

### MISCELLANEOUS

Three Dings magnetic pulleys, 18" face, 30" dia.  
Two Dings magnetic pulleys, 30" face, 30" dia.  
20 No. 4 and 7 1-A Die Cast V pulleys.  
400 HP V belt double pulley unit drive.  
Chicago N8B 14"x12" air compressor, 529CFM.  
Gardner Denver 6"x6" duplex air compressor.  
Ing. Band Imperial No. 13 vertical 6"x6" air compressor.  
Electric motors from 1 HP to 75 HP.  
Speed Reducers 33-1 to 70-1.  
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N. Y. Air Brake 48 duplex steam air compressor.  
Efficient 4" belt driven sand pump.  
Two Goulds 6" centr. Vertical electric pumps.  
Worthington 25 HP electric water pump.  
Gasoline locomotives, 8 & 4 ton 36" gauge.  
Six 36" gauge Koppel 1 yard side dump V cars.  
Waukesha 4 cyl. engine with 14-1 speed reducer.  
40' Drag Conveyor with trough, 16" scrapers, steel frame.

### G. A. UNVERZAGT & SONS

136 COIT ST., IRVINGTON, N. J.

28" TY, 36" TZ Traylor Gyratory Crushers.  
No. 2 Williams Jumbo Jr. Pulverizer Rebuilt.  
No. 6 Allis Chalmers Superior Fine Reduction Crusher.

No. 7 1/2 Austin Gyratory Crusher.  
12x36" Buchanan Jaw Crusher.  
14x36" Cedar Rapids Jaw Crusher.  
14x34" Pioneer Double Roll Crusher.  
21x42" McLanahan Single Roll Crusher.  
Williams 4-roller Comet Mill. Complete.  
4x8' Handinge Pebble Mill. New lining. Pebbles.  
21x24" Dixie Mogul Hammer Mill. New extras.  
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1 yd. P&H 600 Gas Crawler Crane and Dragline.  
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Boyd "Special" 6-mold Dry Brick Press.

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B-Erie 50R steam 2 1/2 yd. shovel, 100% rebuilt.  
Porter 18-ton & Vulcan 17-ton steam 36" gauge  
S/T locomotives, 100% rebuilt, tested.  
Milwaukee 8-ton gas locomotive, 36" ga., A-1.  
Vulcan 18-ton steam S/T locomotive, 42" gauge.  
Whitcomb 8-ton gas locomotives (4), 24" gauge.  
Baldwin and Lima steam locomotives, 58, 56, 56,  
42 and 40 tons, std. gauge, (5).  
Marion electric 4-yd. & 3-yd. shovels.  
P&H 206B crane, gas, 40' boom, 3/4 yd. bkt.  
Page 2-yd. Diesel dragline, 65' boom.  
American steam railway ditcher-crane, 28' bm.  
Gyratory Crushers: 27", 16", 7" Newhouse.  
Jaw Crushers: 24"x50", and 24"x36".  
Cedar Rapids travel type blacktop plant.  
Euclid 6-yd. bottom dump crawler wagons (8).  
Bucyrus 30' shovel boom only, for 50R machine.  
Boiler tubes, 236-1 3/4"x25", ferrules, (new).

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1—18-24 Pioneer Roll Crusher with PD40 International Diesel Power Unit, Intake and Discharge Conveyors on Rubber.

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## FOR SALE

1 Champion Besser Tamping Block Machine, 1941 model, complete with attachments for 3, 4, 6, 8, and 12 inch blocks 18" long.  
1450 1/2"x12 1/2"x18 1/4" plain steel pallets suitable for all of the above size block.  
1 18 in. cu. ft. Besser Mixer, 1941 model.  
All of this equipment is in good shape, ready to go to work. Price \$3000 at our plant.  
1 Main Shaft and Master Gear for No. 2 McCully Gyratory Crusher, practically brand new, \$200.

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SMITHTOWN BRANCH, L. I., NEW YORK

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Three Jackson & Church 12 mold Brick Presses. Two American 9' Rotary mixers.

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### WANTED TO BUY 1 TO 4 BINS

Cone bottom and cone top bin, 25 ft. dia. approx. 30 ft. high on the straight. The bottom cone should be 3/4" material, the shell 5/16" material and the top cone 1/4" material.

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### THE J. E. BAKER COMPANY

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Steam dinky locomotive, 42 gauge, 9 x 14, equipped to burn coal.  
Write Box C-58, c/o Rock Products, 309 W. Jackson Blvd., Chicago 6, Ill.

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Aggregate Hopper—400 Tons Capacity, 5 Compartments.  
Also  
Bulk Cement Hopper—600 Bbls. Capacity.  
Write Box C-55, c/o Rock Products, 309 W. Jackson Blvd., Chicago 6, Ill.

Wanted—5 x 8 x 11 1/2 cast iron or steel lined pallets; also pallets for fractional units of different size block.

Also, Ship Hoist Loader for use with Stearns Clipper Stripper.

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## WANTED

1—Heavy Duty vibrating pan feeder 2 units No. 5 Jeffrey Traylor, or equal.  
1—20 ton 36 gauge gasoline locomotive.

THE NATIONAL LIME & STONE CO.  
FINDLAY, OHIO

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### WANT BUY

50 TON OR HEAVIER  
CAPACITY QUARRY DER-  
RICK, 100 FT. BOOM, WITH  
OR WITHOUT 3 DRUM  
STEAM OR ELECTRIC  
HOIST.

WRITE BOX C-57, c/o ROCK  
PRODUCTS, 309 W. JACK-  
SON BLVD., CHICAGO 6,  
ILL.

### TUBE MILLS

WANTED IMMEDIATELY: One 6' Diameter x  
22" and one 8' Diameter x 30" tube mill. Can  
be without lining. Center discharge preferred.  
Advise price, condition and location for inspection.

**NATIONAL GYPSUM COMPANY**  
Engineering Dept.  
Buffalo 2, New York

### —PLANT FOR SALE—

#### QUARRY AND PLANT FOR SALE

Forced to sell on account of death of husband.  
Quarry and plant in A-1 condition. Contains  
5 acres extra grade limestone. State approved.  
A bargain, in a good location.

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Salesman wanted in central New York State by long established Distributors  
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Commissions. Sales ability, Automobile and knowledge of Machinery neces-  
sary. Excellent future in fine territory for capable man.

Write Box C-60, c/o Rock Products,  
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### Men Wanted After the War

Preliminary correspondence invited  
with men qualified to fill the follow-  
ing permanent after-war positions:

**ENGINEERING ASSISTANT.** Col-  
lege graduate, preferably with sev-  
eral years' cement plant experience.  
Must have good personality and be  
free to travel.

**ENGINEER.** For cement plant  
design and layout.

**DRAFTSMAN,** experienced in re-  
inforced concrete, steel construction  
and heavy machinery.

**W. R. BENDY**  
Cement Engineer  
CLAVERRACK, N. Y.

### WANTED

Manager for our Machinery and  
Equipment Department. Experienced  
with machinery and equipment used  
in heavy industries—like cranes,  
ground and overhead; steel build-  
ings and structures, power plants,  
mining, contractors, etc. Drawing  
account and participation. Unusual  
opportunity for good high grade  
man. Confidences respected.

#### Iron & Steel Products, Inc.

40 years' experience

13492 S. Braintree Ave., Chicago 33, Ill.

"ANYTHING containing IRON or STEEL"

### WANTED

Quarry superintendent, drilling su-  
perintendent and two shovel op-  
erators for established midwest plant  
operating year around.

#### QUARTZITE STONE COMPANY

Lincoln, Kansas

**PLANT ENGINEER:** Exceptional op-  
portunity available with national con-  
cern engaged in essential war activity  
and offering post-war opportunity. Ap-  
plicant should be around 35 years of  
age with mechanical background to be-  
come project engineer during construc-  
tion and upon completion of plant take  
charge of engineering and technical  
work. Prefer man experienced in op-  
eration of crushing, grinding and screen-  
ing machinery especially rotary kiln  
calciners in the lime or portland cement  
industry. Reply, stating age, experi-  
ence, education, salary expected and  
references. Include recent photo. Write  
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#### MINERAL COLORS for CEMENT-PLASTER-STUCCO CONCRETE PRODUCTS

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Ask us for samples and recommendations

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PORTLAND CEMENT  
MANUFACTURER  
WANTS EXPERIENCED  
CHEMICAL ENGINEER.**

**PERMANENT  
POSITION.**

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KNOWS OF THIS AD.**

**ADDRESS REPLY TO  
BOX C-48,  
c/o ROCK PRODUCTS,  
309 W. JACKSON BLVD.  
CHICAGO 6, ILL.**

### — POSITIONS WANTED —

#### POSITION WANTED—Cement Plant

Executive, Mech.-Elec. Engineer, 2  
years Public Utility, 2 years Railroad,  
26 years Design, Construction and  
Operation crushed stone and cement  
plants, both wet and dry. Desire con-  
nection with consulting or operating  
firm. Location preferred South or  
Southwest. Would consider foreign con-  
nections. Write Box C-56, c/o Rock  
Products, 309 W. Jackson Blvd., Chi-  
cago 6, Ill.

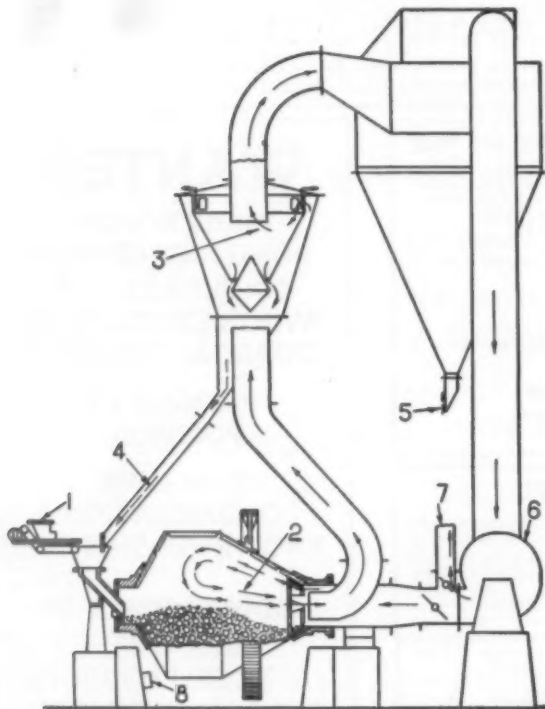
#### POSITION WANTED—Experienced quarry

and plant superintendent available June  
for either sizeable producing portable plant  
or permanent set-up. Write Box C-54, c/o  
Rock Products, 309 W. Jackson Blvd.,  
Chicago 6, Ill.

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Chemist in one of the most up-to-date  
plants in the country desires position  
of a supervisory nature in firm with  
good opportunity for advancement.  
Eighteen years of experience in cement  
manufacture. Recently released from  
the Army under the Voluntary Retirement  
plan with rank of major. Two-  
and-one-half years of the three-and-  
one-half in the Army were in technical  
research and plant management. Write  
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Jackson Blvd., Chicago 6, Ill.





- (1) Material fed to mill by Constant Weight Feeder.
- (2) Finished material removed from mill as soon as produced.
- (3) Separation as fine as 99.9% minus 325 mesh.
- (4) Oversize returned to feed end of mill.
- (5) Product discharged at any elevation—no elevator required.
- (6) Fan returns clean air to mill.
- (7) Small amount of air and vapor vented.
- (8) "Electric Ear" Sound Control unit maintains maximum capacity.

## DRY GRINDING WITHOUT METAL CONTAMINATION

The Hardinge Conical Pebble Mill with the Reversed-Current Classifier will produce products 99.9% minus 325 mesh with only a trace of iron.

The Conical Mill can be lined with silica blocks, porcelain blocks, or the material being ground if of sufficient hardness.

Conical Pebble Mills are available in sizes from 2 ft. diam. to 10 ft. diam. with capacities of a few pounds to several tons per hour.

Write for Bulletin 13-D.

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New York Chicago San Francisco Toronto

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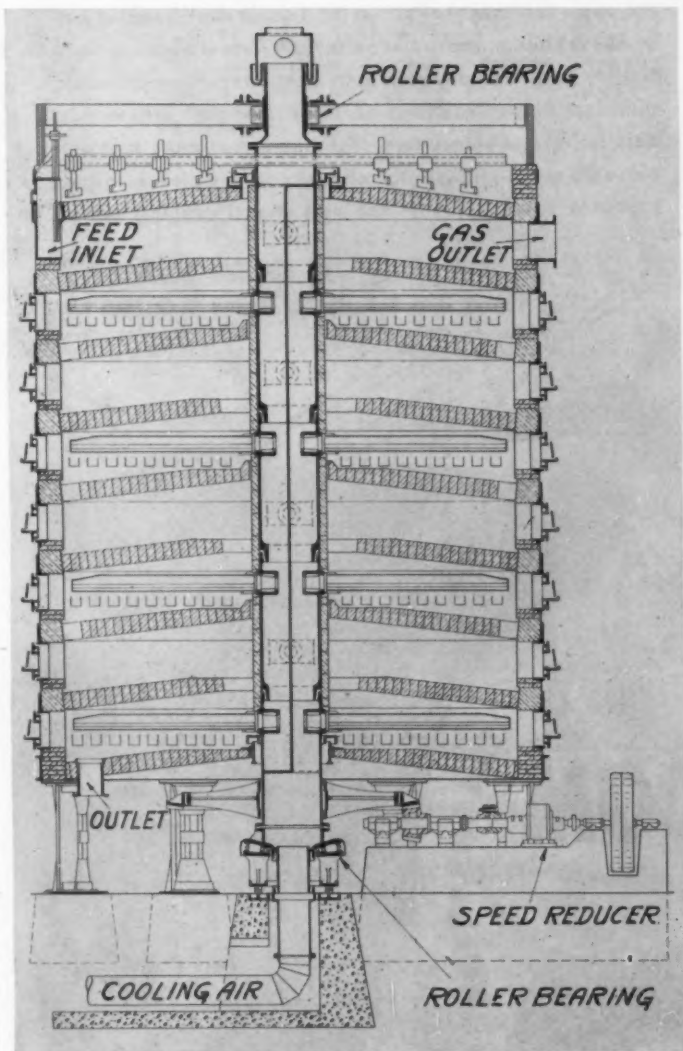
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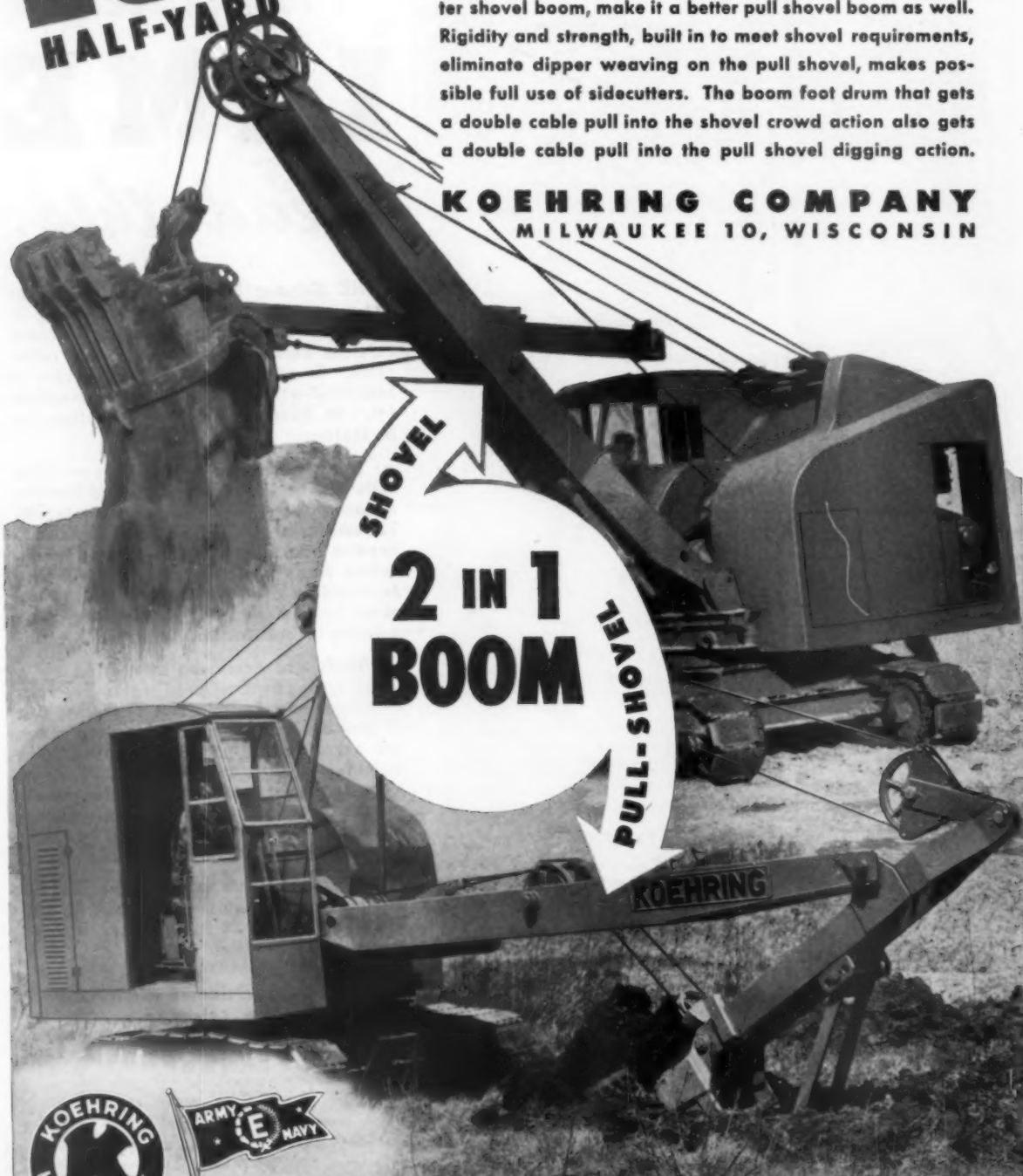
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You save one-half the cost of separate pull shovel boom. The same features that make the Two-in-One boom a better shovel boom, make it a better pull shovel boom as well. Rigidity and strength, built in to meet shovel requirements, eliminate dipper weaving on the pull shovel, makes possible full use of sidecutters. The boom foot drum that gets a double cable pull into the shovel crowd action also gets a double cable pull into the pull shovel digging action.

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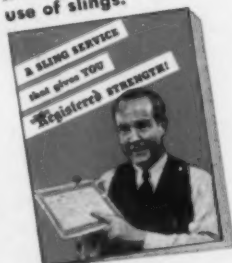




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V-79C

SO. MILWAUKEE

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ERIE**

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